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#12



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RAW SEQUENCE LISTING

DATE: 06/17/2002

PATENT APPLICATION: US/09/905,253A

TIME: 14:04:35

Input Set : A:\Mzw1547.txt

Output Set: N:\CRF3\06172002\I905253A.raw

3 <110> APPLICANT: Wittamer, Valerie
 4 Communi, David
 5 Vandenbogaerde, Ann
 6 Detheux, Michel
 7 Parmentier, Marc
 9 <120> TITLE OF INVENTION: Natural Ligand of G Protein Coupled Receptor ChemR23 and
 Uses Thereof
 11 <130> FILE REFERENCE: 9409/2041
 13 <140> CURRENT APPLICATION NUMBER: US 09/905,253A
 C--> 14 <141> CURRENT FILING DATE: 2002-06-10
 16 <150> PRIOR APPLICATION NUMBER: US 60/303,858
 17 <151> PRIOR FILING DATE: 2001-07-09
 19 <160> NUMBER OF SEQ ID NOS: 38
 21 <170> SOFTWARE: PatentIn version 3.0
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 24 <211> LENGTH: 1112
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Homo sapiens
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 33 ctggtggtgg tctacagcat cgtctgcttc ctcgggattc tgggcaatgg tctggtgatc 180
 35 atcattgcca ccttcaagat gaagaagaca gtgaacatgg tctggttctt caacctggca 240
 37 gtggcagatt tcctgttcaa cgtcttcttc ccaatccata tcacctatgc cgccatggac 300
 39 taccactggg ttttcgggac agccatgtgc aagatcagca acttccttct catccacaac 360
 41 atgttcacca gctgttctct gctgaccatc atcagctctg accgctgcat ctctgtgctc 420
 43 ctccctgtct ggtcccagaa ccaccgcagc gttgccttgg cttacatggc ctgcatggtc 480
 45 atctgggtcc tggctttctt cttgagttcc ccattctctg tcttccggga cacagccaac 540
 47 ctgcatggga aaatatcctg cttaacaac ttcagcctgt ccacacctgg gtcttccctg 600
 49 tggcccaact actcccaaact ggaccctgtg gggatatagc ggcacatggt ggtgactgtc 660
 51 acccgcttcc tctgtggctt cctgggtcca gtctcatca tcacagcttg ctacctcacc 720
 53 atogtctgca aactgcagcg caaccgcctg gccaagacca agaagccctt caagattatt 780
 55 gtgaccatca tcattacctt ctctctctgc tgggtgcccct accacacact caacctccta 840
 57 gagctccacc aactgccaat gctgtgctct gtcttcagcc tggggttgcc cctggccact 900
 59 gcccttgcca ttgccaacag ctgcatgaac cccattctgt atgttttcat ggtcaggact 960
 61 tcaagaagtt caaggtggcc ctcttctctc ccttggtcaa tgctctaagt gaagatacag 1020
 63 gccactcttc ctaccccagc catagaagct ttaccaagat gtcaatgaat gagaggactt 1080
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 69 <211> LENGTH: 371
 70 <212> TYPE: PRT
 71 <213> ORGANISM: Homo sapiens
 73 <400> SEQUENCE: 2
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78 Pro Asp Tyr Leu Asp Ser Ile Val Val Leu Glu Asp Leu Ser Pro Leu
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81 Glu Ala Arg Val Thr Arg Ile Phe Leu Val Val Val Tyr Ser Ile Val
82          35          40          45
84 Cys Phe Leu Gly Ile Leu Gly Asn Gly Leu Val Ile Ile Ala Thr
85          50          55          60
87 Phe Lys Met Lys Lys Thr Val Asn Met Val Trp Phe Leu Asn Leu Ala
88 65          70          75          80
90 Val Ala Asp Phe Leu Phe Asn Val Phe Leu Pro Ile His Ile Thr Tyr
91          85          90          95
93 Ala Ala Met Asp Tyr His Trp Val Phe Gly Thr Ala Met Cys Lys Ile
94          100          105          110
96 Ser Asn Phe Leu Leu Ile His Asn Met Phe Thr Ser Val Phe Leu Leu
97          115          120          125
99 Thr Ile Ile Ser Ser Asp Arg Cys Ile Ser Val Leu Leu Pro Val Trp
100          130          135          140
102 Ser Gln Asn His Arg Ser Val Arg Leu Ala Tyr Met Ala Cys Met Val
103 145          150          155          160
105 Ile Trp Val Leu Ala Phe Phe Leu Ser Ser Pro Ser Leu Val Phe Arg
106          165          170          175
108 Asp Thr Ala Asn Leu His Gly Lys Ile Ser Cys Phe Asn Asn Phe Ser
109          180          185          190
111 Leu Ser Thr Pro Gly Ser Ser Ser Trp Pro Thr His Ser Gln Met Asp
112          195          200          205
114 Pro Val Gly Tyr Ser Arg His Met Val Val Thr Val Thr Arg Phe Leu
115          210          215          220
117 Cys Gly Phe Leu Val Pro Val Leu Ile Ile Thr Ala Cys Tyr Leu Thr
118 225          230          235          240
120 Ile Val Cys Lys Leu Gln Arg Asn Arg Leu Ala Lys Thr Lys Lys Pro
121          245          250          255
123 Phe Lys Ile Ile Val Thr Ile Ile Ile Thr Phe Phe Leu Cys Trp Cys
124          260          265          270
126 Pro Tyr His Thr Leu Asn Leu Leu Glu Leu His His Thr Ala Met Pro
127          275          280          285
129 Gly Ser Val Phe Ser Leu Gly Leu Pro Leu Ala Thr Ala Leu Ala Ile
130          290          295          300
132 Ala Asn Ser Cys Met Asn Pro Ile Leu Tyr Val Phe Met Gly Gln Asp
133 305          310          315          320
135 Phe Lys Lys Phe Lys Val Ala Leu Phe Ser Arg Leu Val Asn Ala Leu
136          325          330          335
138 Ser Glu Asp Thr Gly His Ser Ser Tyr Pro Ser His Arg Ser Phe Thr
139          340          345          350
141 Lys Met Ser Ser Met Asn Glu Arg Thr Ser Met Asn Glu Arg Glu Thr
142          355          360          365
144 Gly Met Leu
145          370
147 <210> SEQ ID NO: 3
148 <211> LENGTH: 1116

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Input Set : A:\Mzw1547.txt

Output Set: N:\CRF3\06172002\I905253A.raw

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149 <212> TYPE: DNA
150 <213> ORGANISM: Mus musculus
152 <400> SEQUENCE: 3
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155 ggctactttg tggacttgga ggaggcgagt ccgtgggagg ccaaggtggc cccggtcttc      120
157 ctggtggtga tctacagctt ggtgtgcttc ctccggtctcc taggcaacgg cctggtgatt      180
159 gtcacgcgca ccttcaagat gaagaagacc gtgaacactg tgtggtttgt caacctggct      240
161 gtggccgact tcctgttcaa catctttttg ccgatgcaca tcacctacgc ggccatggac      300
163 taccactggg tggtcgggaa ggccatgtgc aagatcagca acttcttgct cagccacaac      360
165 atgtacacca gcgtcttctt gctgactgtc atcagctttg accgctgcat ctccgtgctg      420
167 ctccccgtct ggtcccgaga ccaccgcagc atcgcgctgg cctacatgac ctgctcggcc      480
169 gtctgggtcc tggttttctt cttgagctcc ccgtcccttg tcttccggga caccgccaac      540
171 attcatggga agataacctg cttcaacaac ttcagcttgg ccgcgcctga gtctctccca      600
173 catcccgccc actcgcaagt agtttccaca gggtagagca gacacgtggc ggtaactgtc      660
175 acccgcttcc tttgcggtct cctgatcccc gtcttcatca tcacggcctg ctaccttacc      720
177 atcgtcttca agctgcagcg caaccgcctg gccagaagaa agaagccctt caagatcatc      780
179 atcaccatca tcatcacctt ctctctctgc tgggtgcccct accacaccct ctacctgctg      840
181 gagctccacc acacagctgt gccaaagctct gtcttcagcc tggggctacc cctggccacg      900
183 gccgtcgcca tcgccaaacg ctgcatgaac cccattctgt acgtcttcat gggccacgac      960
185 ttcagaaaaa tcaaggtggc cctcttctcc cgcttgacca acgcctgag tgaggacaca     1020
187 ggccccctct cctaccccag tcacaggagc ttcaccaaga tgtcgtcttt gaatgagaag     1080
189 gcttcggtga atgagaagga gaccagtacc ctctga                                1116
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193 <211> LENGTH: 371
194 <212> TYPE: PRT
195 <213> ORGANISM: Mus musculus
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202 Ser Asp Gly Phe Gly Tyr Phe Val Asp Leu Glu Glu Ala Ser Pro Trp
203          20          25          30
205 Glu Ala Lys Val Ala Pro Val Phe Leu Val Val Ile Tyr Ser Leu Val
206          35          40          45
208 Cys Phe Leu Gly Leu Leu Gly Asn Gly Leu Val Ile Val Ile Ala Thr
209          50          55          60
211 Phe Lys Met Lys Lys Thr Val Asn Thr Val Trp Phe Val Asn Leu Ala
212 65          70          75          80
214 Val Ala Asp Phe Leu Phe Asn Ile Phe Leu Pro Met His Ile Thr Tyr
215          85          90          95
217 Ala Ala Met Asp Tyr His Trp Val Phe Gly Lys Ala Met Cys Lys Ile
218          100         105         110
220 Ser Asn Phe Leu Leu Ser His Asn Met Tyr Thr Ser Val Phe Leu Leu
221          115         120         125
223 Thr Val Ile Ser Phe Asp Arg Cys Ile Ser Val Leu Leu Pro Val Trp
224          130         135         140
226 Ser Gln Asn His Arg Ser Ile Arg Leu Ala Tyr Met Thr Cys Ser Ala
227 145          150         155         160
229 Val Trp Val Leu Ala Phe Phe Leu Ser Ser Pro Ser Leu Val Phe Arg
230          165         170         175

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232 Asp Thr Ala Asn Ile His Gly Lys Ile Thr Cys Phe Asn Asn Phe Ser
 233 180 185 190
 235 Leu Ala Ala Pro Glu Ser Ser Pro His Pro Ala His Ser Gln Val Val
 236 195 200 205
 238 Ser Thr Gly Tyr Ser Arg His Val Ala Val Thr Val Thr Arg Phe Leu
 239 210 215 220
 241 Cys Gly Phe Leu Ile Pro Val Phe Ile Ile Thr Ala Cys Tyr Leu Thr
 242 225 230 235 240
 244 Ile Val Phe Lys Leu Gln Arg Asn Arg Leu Ala Lys Asn Lys Lys Pro
 245 245 250 255
 247 Phe Lys Ile Ile Ile Thr Ile Ile Ile Thr Phe Phe Leu Cys Trp Cys
 248 260 265 270
 250 Pro Tyr His Thr Leu Tyr Leu Leu Glu Leu His His Thr Ala Val Pro
 251 275 280 285
 253 Ser Ser Val Phe Ser Leu Gly Leu Pro Leu Ala Thr Ala Val Ala Ile
 254 290 295 300
 256 Ala Asn Ser Cys Met Asn Pro Ile Leu Tyr Val Phe Met Gly His Asp
 257 305 310 315 320
 259 Phe Arg Lys Phe Lys Val Ala Leu Phe Ser Arg Leu Ala Asn Ala Leu
 260 325 330 335
 262 Ser Glu Asp Thr Gly Pro Ser Ser Tyr Pro Ser His Arg Ser Phe Thr
 263 340 345 350
 265 Lys Met Ser Ser Leu Asn Glu Lys Ala Ser Val Asn Glu Lys Glu Thr
 266 355 360 365
 268 Ser Thr Leu
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271 <210> SEQ ID NO: 5

272 <211> LENGTH: 1116

273 <212> TYPE: DNA

274 <213> ORGANISM: Rattus norvegicus

276 <400> SEQUENCE: 5

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 279 gactacatcg tggacttgga ggaggcgggt ccaactggagg ccaaggtggc cgaggtcttc 120
 281 ctggtggttaa tctacagctt ggtgtgcttc ctcgggatcc taggcaatgg cctggtgatt 180
 283 gtcatcgcca ccttcaagat gaagaagacg gtgaacaccg tgtggtttgt caacctggcc 240
 285 gtggctgact tctgttcaa catcttcttg cccatccaca tcacctatgc cgctatggac 300
 287 taccactggg tggtcgggaa agccatgtgc aagattagta gctttctgct aagccacaac 360
 289 atgtacacca gcgtcttctt gctcactgtc atcagcttcg accgctgcat ctccgtgctc 420
 291 ctccccgtct ggtcccagaa ccaccgcagc gtgcgtctgg cctacatgac ctgcgtggtt 480
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 295 agccacggga agataacctg cttaacaac ttcagcctgg cggcgcccga gcctttctct 600
 297 cattccaccc acccgcgaa acagccggta gggtacagca gacatgtggc ggtcaccgtc 660
 299 acccgcttcc tctgtggctt cctgatcccc gtcttcatca tcacggcctg ttacctcacc 720
 301 atcgtcttca agttgcagcg caaccgcccag gccaaagacca agaagccctt caagatcatc 780
 303 atcaccatca tcatcaoctt ctctctctgc tgggtgccctt accacacact ctacctgctg 840
 305 gagctccacc aacggctgtt gccagcctct gtcttcagcc tgggactgcc cctggccaca 900
 307 gccgtcgcca tcgccaacag ctgtatgaac cccatcctgt acgtcttcat gggccacgac 960
 309 ttcaaaaaat tcaaggtggc ccttttctcc cgctggtga atgcctgag cgaggacaca 1020
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316 <210> SEQ ID NO: 6
317 <211> LENGTH: 371
318 <212> TYPE: PRT
319 <213> ORGANISM: Rattus norvegicus
321 <400> SEQUENCE: 6
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326 Ser Asp Gly Ser Asp Tyr Ile Val Asp Leu Glu Glu Ala Gly Pro Leu
327 20 25 30
329 Glu Ala Lys Val Ala Glu Val Phe Leu Val Val Ile Tyr Ser Leu Val
330 35 40 45
332 Cys Phe Leu Gly Ile Leu Gly Asn Gly Leu Val Ile Val Ile Ala Thr
333 50 55 60
335 Phe Lys Met Lys Lys Thr Val Asn Thr Val Trp Phe Val Asn Leu Ala
336 65 70 75 80
338 Val Ala Asp Phe Leu Phe Asn Ile Phe Leu Pro Ile His Ile Thr Tyr
339 85 90 95
341 Ala Ala Met Asp Tyr His Trp Val Phe Gly Lys Ala Met Cys Lys Ile
342 100 105 110
344 Ser Ser Phe Leu Leu Ser His Asn Met Tyr Thr Ser Val Phe Leu Leu
345 115 120 125
347 Thr Val Ile Ser Phe Asp Arg Cys Ile Ser Val Leu Leu Pro Val Trp
348 130 135 140
350 Ser Gln Asn His Arg Ser Val Arg Leu Ala Tyr Met Thr Cys Val Val
351 145 150 155 160
353 Val Trp Val Trp Leu Ser Ser Glu Ser Pro Pro Ser Leu Val Phe Gly
354 165 170 175
356 His Val Ser Thr Ser His Gly Lys Ile Thr Cys Phe Asn Asn Phe Ser
357 180 185 190
359 Leu Ala Ala Pro Glu Pro Phe Ser His Ser Thr His Pro Arg Thr Asp
360 195 200 205
362 Pro Val Gly Tyr Ser Arg His Val Ala Val Thr Val Thr Arg Phe Leu
363 210 215 220
365 Cys Gly Phe Leu Ile Pro Val Phe Ile Ile Thr Ala Cys Tyr Leu Thr
366 225 230 235 240
368 Ile Val Phe Lys Leu Gln Arg Asn Arg Gln Ala Lys Thr Lys Lys Pro
369 245 250 255
371 Phe Lys Ile Ile Ile Thr Ile Ile Ile Thr Phe Phe Leu Cys Trp Cys
372 260 265 270
374 Pro Tyr His Thr Leu Tyr Leu Leu Glu Leu His His Thr Ala Val Pro
375 275 280 285
377 Ala Ser Val Phe Ser Leu Gly Leu Pro Leu Ala Thr Ala Val Ala Ile
378 290 295 300
380 Ala Asn Ser Cys Met Asn Pro Ile Leu Tyr Val Phe Met Gly His Asp
381 305 310 315 320
383 Phe Lys Lys Phe Lys Val Ala Leu Phe Ser Arg Leu Val Asn Ala Leu
384 325 330 335
386 Ser Glu Asp Thr Gly Pro Ser Ser Tyr Pro Ser His Arg Ser Phe Thr

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/905,253A

DATE: 06/17/2002

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L:541 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12
L:791 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:37
L:804 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:38